| POSITION            | INITIALS | ID NO.        | DATE    |  |  |  |
|---------------------|----------|---------------|---------|--|--|--|
| FEE DETERMINATION   |          |               | + /     |  |  |  |
| O.I.P.E. CLASSIFIER |          | .12           | 4/19    |  |  |  |
| FORMALITY REVIEW    | KQ       | 305/705,      | 04/27/9 |  |  |  |
|                     | IN       | DEX OF CLAIMS |         |  |  |  |

|   | Rejected                   | . N | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | 1   | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | Λ   | Objected     |

|                         |            | ÷        |          |          |          |          |              |          |  | Re       |            |     |                |          |          |          | estricted |              |          |          |          |          |            |
|-------------------------|------------|----------|----------|----------|----------|----------|--------------|----------|--|----------|------------|-----|----------------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|------------|
| č                       | im         | L.       |          |          |          | Da       | te           |          |  |          | •          |     | Cli            | alm      |          |          |           |              | Dε       | ıte      |          |          |            |
| Bubb                    | 1 Oliginal | 1/8/18   |          |          |          |          |              |          |  |          |            |     | Finat          | Original |          |          |           |              |          |          |          |          |            |
| K                       | 1          | V        | $\vdash$ | T        | Т        | T-       | 1            | ✝        |  | t        | 1          | 1   | 广              | 51       | H        | Н        | H         | ┢            | t        | 1        | +        | t        | t          |
|                         | 2          | H        | Н        |          | ┢        | 1        | T            | $\vdash$ | <del>                                     </del> | t        | H          | 1   | -              | 52       | Н        | 1        | ╁         | ╁            | H        | +-       | ╁        | ╁╌       | +-         |
|                         | 3          | П        | Г        | T        |          | 1        | Т            | Ι-       | 1  |          | T          | 1   |                | 53       | Т        |          | 1         | $\vdash$     | T        | †        | †        | †        | ✝          |
|                         | 4          | H        | ┢        | 1        | Н        | T        | _            | 1        | $\vdash$   | H        | †          | 1   | $\vdash$       | 54       | Н        | H        | ┢         | H            | $\vdash$ | +        | ╁        | ╁        | ╁          |
|                         | 5          | П        | Γ        | Г        |          |          | T            | Τ.       |  | 1        | T          | 1   | $\vdash$       | 55       | Т        | $\vdash$ | ⇈         | T            | 1        |          | †        | T        | ╁          |
|                         | 6          | П        |          |          | Ι,       | Г        | $\vdash$     |          |  |          | 1          | 1   |                | 56       | T        | 1        |           | Г            | Η        | 1        | T        |          | ✝          |
| 1                       | 7          | 1        | Г        | 1        | Г        |          |              |          |  | T        | Т          | 1   |                | 57       | ┪        | 1        |           | ·            | Г        | T        | T        | 1        | T          |
| X                       | 8          | IJ       | Г        |          |          | ::       | Г            |          |  | Г        |            | 1   |                | 58       | Г        | T        |           | Т            | T        | T        | †        | T        | t          |
| $\zeta$                 | 9          | 1        |          |          |          | .,       |              |          |  |          | Τ.         | 1 · | Г              | 59       |          | T        | Г         |              |          | Т        |          | 1        | T          |
| X                       | E          |          |          |          | -        |          |              |          |  |          |            | 1   |                | 60       |          | Г        | Г         | Г            | Г        |          |          | T        | 1          |
| $\langle \cdot \rangle$ | J          | Ÿ        |          | 20       |          |          |              | 18       |  | ·        |            |     |                | 61       |          |          | Г         |              |          | Г        | Г        | 1        | Т          |
| 14                      | 12         | 5)       | *        | . 10     | 2        | 3.5      |              | 2,3      | 74.5   | 3.       |            | ] ; |                | 62       |          |          | ٦,        | Γ            |          |          | П        | T        |            |
| K                       | 13         | *        | ė,       |          | 1        | 34       | 1            | 10       | . 5  | . 3      | 9.         | , , |                | 63       | -        |          |           | 4            |          |          | П        | 1        | -          |
| 為                       | 14         | *        | 4        | to.      | in t     | (£)      | 3.1          | ήŧ       |  | 4        |            | 1   |                | 64       | ÷        |          |           |              |          | Γ        | Г        |          |            |
| Ø.                      | 15         | (1)      | Α,       | 13       | .39      | Ų,       | 3            | 3.       | 1.4  | 74       |            |     | -              | 65       |          | 4.       |           |              |          |          |          | Ι        | Γ.         |
| À                       | 16         | 1        | 1        | , ;      | 6        | - 1      | Æ            | *        | 100  |          | 4.7        |     |                | 66       | 13       |          |           |              |          |          |          |          |            |
| W.                      | 17         | 4        | 1.5      | 1        | 54       | ٧.       | \$1.         | 1/4      | 3  | 12       |            |     | <u>::</u>      | 67       | •        | L        |           |              |          |          |          | L        |            |
| ķ,                      | 18         | 1        | ·:       | γ.       |          |          | 1            | 1        |  | L        | τ.         | `   | L              | 68       |          |          |           |              | L        |          |          |          |            |
| Ψį.                     | 19         | 1. C     | ķ.       |          |          | Ŀ        | :            |          | Ŀ  | Ŀ        | L          |     | L              | 69       |          |          |           | L            | L        |          |          |          |            |
| 8                       | 20         |          | 70       | 1        |          | .35      |              | 4        |  |          |            |     | 1              | 70       |          |          |           | ŀ            | ١        |          |          |          |            |
| <u>}</u>                | 21         |          |          | 14       | L        |          |              |          |  | 1        |            | ]   |                | 71       |          | 1        |           |              | -        | •        |          |          | Г          |
| 3                       | 22         |          | ·        |          |          | L        |              |          |  | - 1      |            |     |                | 72       |          |          |           |              |          |          |          |          | Г          |
|                         | ಚ          | ,        | L        | 乚        | L        |          | L            | ·        |  |          |            |     |                | 73       |          |          |           |              |          |          |          |          | Γ          |
| •                       | 24         |          | ļ        | Ŀ        | _        |          | Ŀ            | <u> </u> | Ŀ  | L        | L          |     | L              | 74       |          |          |           |              |          |          |          |          |            |
| •                       | 25         | <u> </u> |          | <u> </u> | _        | L        | L            | ļ        | _  | L        | ┖          |     | <u></u>        | 75       |          | <u></u>  | L         |              |          |          |          |          | L          |
| 1.                      | 26         |          | L        | L        | <u> </u> | _        | L            | <u> </u> | L  | _        |            |     |                | 76       | _        | <u> </u> | L         |              | L        |          |          |          | L          |
|                         | 27         | _        |          | _        | ļ        | <u> </u> | ᆫ            | <u> </u> | L.   | _        | <u> </u>   |     | <u> </u>       | 77       |          | L        | ╙         | L            | _        | 匚        | 乚        | <u> </u> | L          |
|                         | 28         | L        | L        | _        | L        | Ь.       | _            | <u> </u> | L_   | L.       | ㄴ          | Į   | 匚              | 78       | _        | _        | _         | _            | L        | 匚        | 乚        | L        | L          |
| _                       | 29         |          | ļ        | <u> </u> | ╙        | <u> </u> | <u> </u>     | L_       | _  | <u> </u> | <b> </b> _ | l   |                | 79       |          | <u> </u> | L         | <u> </u>     | L        | _        |          | 乚        | ↓_         |
|                         | 30<br>31   | <u> </u> | -        | L        | _        | -        | _            | <u> </u> | <u> </u>   | L.       | ↓_         | ļ   | L              | 70       | _        | _        | _         | ļ            | <u> </u> | _        | ᆫ        | Ļ        | L          |
|                         | 32         | ┡        | ⊢        | -        | -        | <u> </u> | $\vdash$     | <u> </u> | -  | <u> </u> | <u> </u>   |     | <u> </u>       | 81       | _        | <u> </u> | _         | <u> </u>     |          | <u> </u> | <u> </u> | <b>!</b> | <u> </u>   |
| _                       | 33         | -        | ⊢        |          | -        | -        | ⊢            | ┝        |  | ├        | ├-         |     | ⊢              | 82<br>83 |          | ┝        | ļ         | ┡            | <u> </u> | <u> </u> | ┡        | ļ        | ┡          |
|                         | 34         | -        | ⊢        | $\vdash$ | $\vdash$ |          | ⊢            | ┝        | ├-   | -        | ⊢          | İ   | ⊢              | 84       | _        | ┡        | -         | L            | ļ        | ļ        | <u> </u> | ├-       | L          |
|                         | 35         | H        | -        | -        | $\vdash$ | ⊢        | <del> </del> | ├        | $\vdash$   | ⊢        | ├          |     | H              | 85       |          | -        | $\vdash$  | ⊢            | ┡        | <u> </u> |          | ⊢        | ⊢          |
| -                       | 36         | _        | $\vdash$ | ├─       | ⊢        | -        | Н            | ┝        | Η.   | -        | ⊢          | l   | -              | 86       | _        | -        | -         | ⊢            | -        | -        | <u> </u> | -        | -          |
| _                       | 37         | _        | ⊢        | $\vdash$ | Н        | $\vdash$ |              | H        | -  | ┝        | ┝          |     | ⊢              | 87       | _        | $\vdash$ | _         | <del> </del> |          | -        | ├        | ⊢        | ├          |
| _                       | 38         |          | ⊢        | Н        |          | ┝        | ┝            | -        | $\vdash$   | ┝        | -          |     | ⊢              | 88       | _        |          |           | -            | ⊢        | ├        | ├-       | ├        | ⊢          |
| _                       | 39         | -        | $\vdash$ |          |          | ⊢        | Н            | Н        | $\vdash$   | ⊢        | -          |     | Н              | 89       | _        |          |           |              | ⊢        | ⊢        | <u> </u> | H        | ⊢          |
| _                       | 3 8        | -        | -        | -        | Н        | H        | Н            | -        | -  | -        | -          |     | Н              | 90       | -        | -        | -         | _            | Н        | $\vdash$ | ⊢        | $\vdash$ | -          |
| -                       | 41         | -        | $\vdash$ | Н        | Н        | -        | -            | _        | $\vdash$   | -        |            |     |                | 91       | _        |          | _         |              |          | <u> </u> | ├-       | ┝        | ⊢          |
| -                       | 42         | H        | -        | $\vdash$ | Н        | Н        | Н            | $\vdash$ |  | Н        | H          |     | Н              | 91       | _        | _        |           | _            | _        | <u> </u> | <u> </u> | <u> </u> | <u> </u>   |
| -                       | 43         | _        | H        | Н        | $\vdash$ |          | -            |          | H  | -        | -          |     | $\vdash\vdash$ | 93       | -        | Н        | $\vdash$  |              |          | Н        | L        | -        | <u> </u>   |
| ,                       | 44         |          |          | Н        | Н        | Н        | Н            | -        | Н  | Н        |            |     | $\vdash$       | 94       |          | _        | _         |              | $\vdash$ | -        | <u> </u> | $\vdash$ | <b> </b> - |
| $\dashv$                | 45         | Н        | Н        | Н        | Н        | Н        | Н            | Н        | $\dashv$   | Н        | Н          |     | $\vdash\dashv$ | 95       | -        | -        | $\dashv$  | _            | _        | H        | -        | $\vdash$ | -          |
|                         | 46         | Н        | —        | $\vdash$ | -        | Н        | Н            | Н        | Н  | Н        | Н          |     | H              | 96       | -        | $\dashv$ |           | _            |          | -        | -        | -        | $\vdash$   |
| -                       | 47         |          | H        | $\vdash$ | $\vdash$ |          | $\dashv$     | $\dashv$ | $\dashv$   | $\vdash$ | Н          |     | $\vdash$       | 97       | $\dashv$ | 닉        | -         |              | $\vdash$ |          |          | -        | H          |
| -                       | 48         | -        | _        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$     |          | $\dashv$   | _        | Н          |     | H              | 98       | ᅱ        | -        | -         |              | _        |          |          | _        | <u> </u>   |
| -                       | 49         | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$   | $\dashv$ | Н          |     | $\vdash$       | 99       |          |          | -         | -            | -        | Н        | -        | _        | Н          |
|                         | 70         | 1        |          |          |          |          |              |          |  |          |            |     |                | 93       |          |          |           |              |          |          |          |          |            |

| _             |          |               |          |      |               | <i>:</i> . |        | ٠.            |          | 7 3       | 2   |
|---------------|----------|---------------|----------|------|---------------|------------|--------|---------------|----------|-----------|-----|
| Cla           | im       | i .           |          | ٠.   |               | Da         | te     | ·             | ŧ.       | 4         | ٠.  |
| Г             |          |               |          | Г    | Γ             |            |        |               | 1        |           |     |
| Final         | Original |               |          | ١,   |               | ١.         |        |               |          |           |     |
| $\vdash$      | 110      |               | T-       | ✝    | T             | t          | T      |               | 1        | ╁         | ┪   |
| $\vdash$      | 112      |               |          | ┉    | ╁╾            | ┼-         | 1-     | -             | ┢╌       | ├         |     |
| -             | 113      | H             | ┢        | ├    | ╌             | H          | -      | ┝             | H        | ├         | H   |
|               |          | L             | ļ        | ╙    | ╙             | _          | L      | L             | L        | L         | L   |
| _             | 114      | <u> </u>      | L.       | ļ.,  | ļ             | ╙          | L      | Ŀ             | L        | Ŀ         | L   |
| $\perp$       | 115      |               |          |      | <u> </u>      | L          | L      | _             | L        | L         | Ŀ   |
|               | 116      |               | ٠,       |      |               | <u> </u>   |        |               | L        |           | L   |
|               | 117      |               |          |      | ١.            |            |        |               | Г        |           | ١,  |
|               | 118      |               | ٠,       |      |               | Г          | Π      |               |          |           | Г   |
|               | 119      |               | ٠,       |      | 7             | -          |        |               |          |           | Г   |
|               | 110      |               | ٠,       | ٠j٠  | 14            |            | 2,     |               | Г        |           |     |
|               | 111      | - X           | <b>X</b> | £    | .3            | 4.         | تزد    | 4.3           | Q.       | 30        |     |
|               | 112      |               | 1        | **   | 孙             | Ÿ.         | 100    | V.            | 37       | *         | 40  |
|               | 113      | 30            | **       |      | *             |            |        | 45            |          |           | 7.7 |
| -             | 114      |               | *        |      | 16            | 3.         | 1      | Ţ.            | 4        | 7         | 20  |
|               | 115      | 10)           | 84       | 3    | 3.            | Ž)         | 3      |               | 1        | 7         | -   |
| _             | 116      | 33            |          | 4.2  | 93            |            | 497    | 4             | *        | 1,        | 4   |
|               | 117      | 17            | 3        | ÷    | 35            |            | 4      | £3.           |          | **<br>**: |     |
| ÷             | 118      |               | £35      | 17/4 | 1             | V.         | 35     |               |          | <i>₹</i>  |     |
|               | 119      |               | 44       | 1.5  |               | ,          | -,     |               |          | e Sa      | ŧ,  |
| _             | 120      | $\overline{}$ | 4        | 100  | 47.           | -,         |        |               |          |           | 7   |
|               | 121      |               |          |      |               |            |        | Η.            |          | Н         | -   |
|               | 122      | -             | K1.      | _    |               |            | -      | Н             | -        |           | -   |
|               | 123      |               | -        |      | $\vdash$      | H          | Н      | -             | $\vdash$ | Н         | -   |
|               | 124      |               | Н        | Н    |               | -          | Н      |               | -        | H         |     |
| $\overline{}$ | 125      | _             | -        | Н    |               | ┝          |        | -             | -        | _         |     |
|               | 126      |               |          |      |               |            | ÷      |               | Н        | $\vdash$  |     |
|               | 127      |               |          |      |               | -          |        |               |          |           | Т   |
|               | 128      |               |          |      |               |            |        |               |          |           | Г   |
|               | 129      |               |          |      |               | -          |        |               |          |           |     |
|               | 130      |               |          | П    |               |            |        |               |          |           | _   |
|               | 131      |               |          |      |               |            |        |               |          | П         | _   |
|               | 132      |               |          |      |               |            |        | _             | _        | т         | _   |
|               | 133      |               |          |      |               |            |        | $\overline{}$ |          |           | _   |
| $\neg$        | 134      |               |          |      |               |            |        | $\vdash$      |          | H         | _   |
|               | 135      | $\neg$        |          |      | $\overline{}$ |            | Н      | _             | -        | $\dashv$  |     |
| $\neg$        | 136      |               | -        |      |               |            |        | $\vdash$      | -        |           | -   |
|               | 137      | $\neg$        | -        |      | Н             | _          | -      | -             | Н        | Н         | _   |
| -             | 38       |               | $\dashv$ |      | -             |            | $\neg$ | -             | $\dashv$ | $\vdash$  | -   |
| _             | 139      | -             | -        | -    | $\neg$        | -          | Н      | Н             |          | $\dashv$  | _   |
| $\neg$        | 40       | ┪             |          | ᅥ    | $\neg$        |            |        |               |          |           |     |
| ╗             | 141      | 7             | $\neg$   |      | $\neg$        |            |        | _             | ᅥ        | -         |     |
| 7             | 142      | 7             | 7        | Ħ    | -             | $\dashv$   | $\neg$ |               | $\dashv$ | $\dashv$  | _   |
| Ŧ             | 143      | ┪             | 寸        |      |               | 7          | 7      | _             | $\neg$   | _         | _   |
| $\Box$        | 144      | T             |          | ╗    |               |            |        | $\dashv$      | $\dashv$ | ┪         |     |
|               | 45       |               |          |      |               |            |        |               | ┪        | T         |     |
| _             | 46       | $\bot$        | $\Box$   | I    |               |            | J      | J             |          | ╛         | _   |
|               | 47       | _[            |          |      |               |            |        | J             |          | ╛         |     |
| _             | 48       | _             | _[       | J    | _[            | $\Box$     | I      |               |          |           | Ξ   |
| _[            | 49       | 4             | 4        | 4    | _             | 4          | _[     | _[            | _[       | $\Box$    |     |
|               | 50       |               | _1       | 1    | _ !           | _ 1        | - [    | - 1           | - 1      |           |     |

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